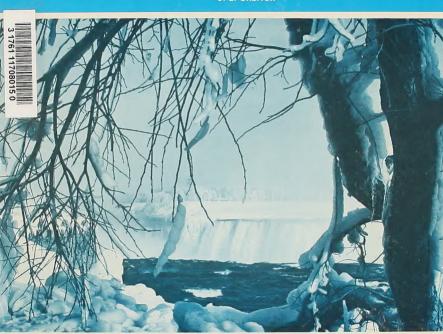


nvironnement

A Hydrogeological Study of the Selkirk Area, Manitoba

CAI MT 56 72 S08

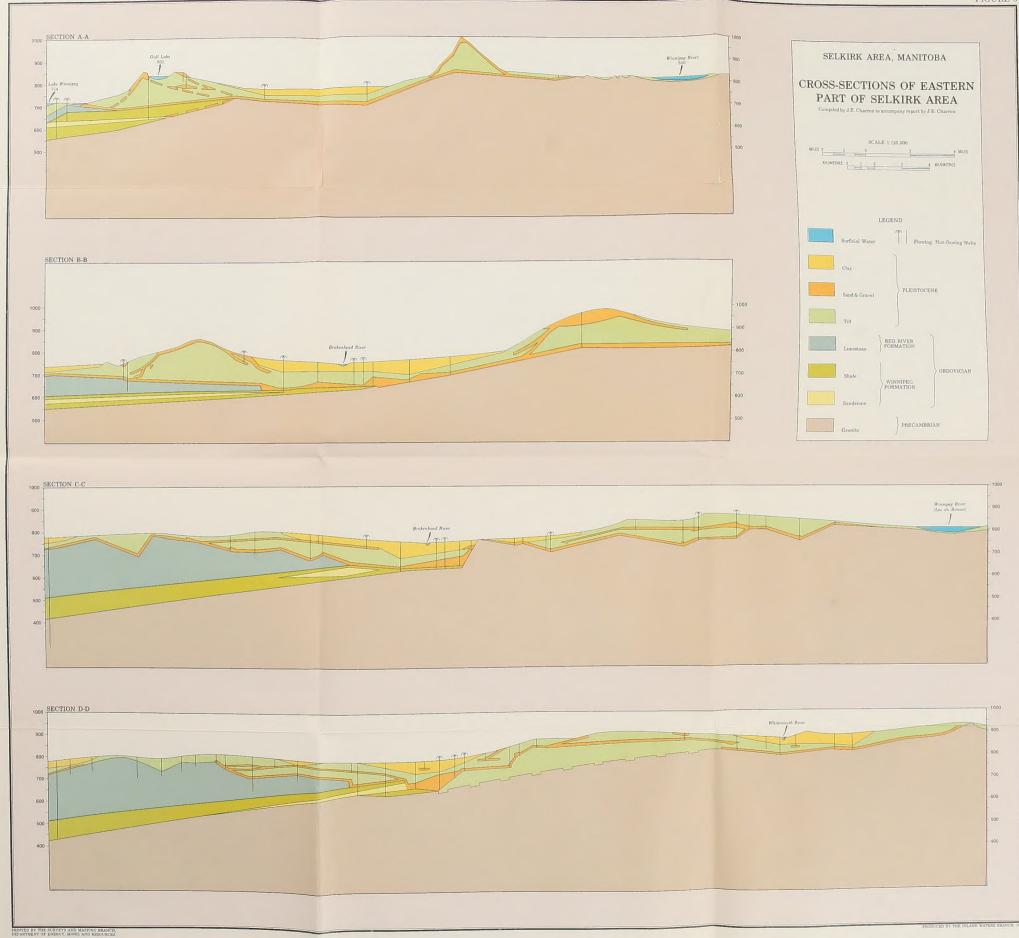
J. E. Charron

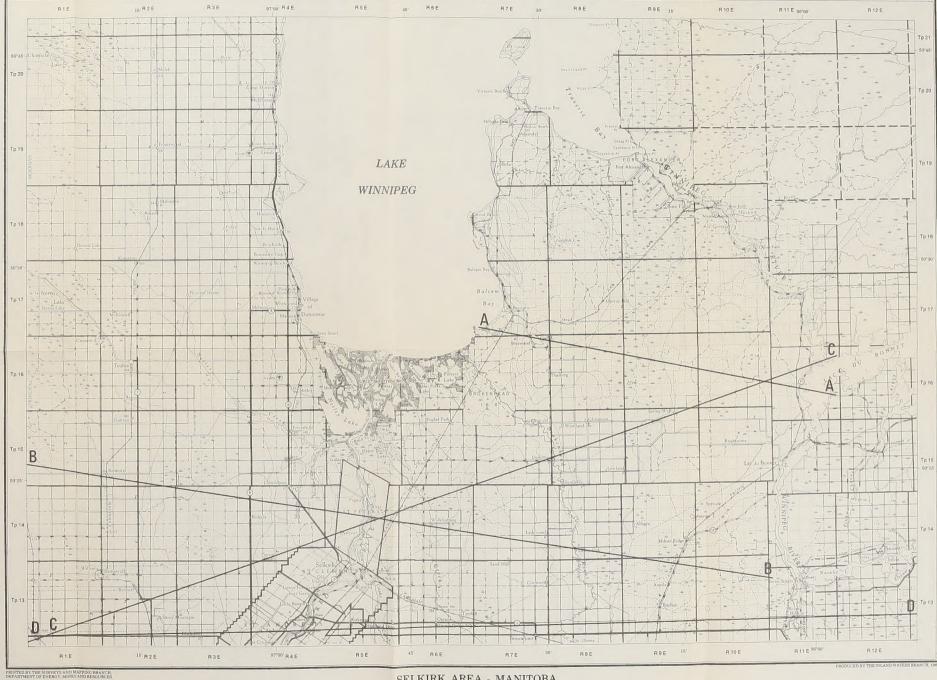


SCIENTIFIC SERIES NO. 8

(Résumé en français)

INLAND WATERS DIRECTORATE, WATER RESOURCES BRANCH, OTTAWA, CANADA, 1974.





se map prepared by the Surveys and Mapping Branch Cartography by the Inland Waters Branch, 1969



SCALE 1:250,000

SELKIRK AREA - MANITOBA

LOCATION OF CROSS-SECTIONS EASTERN PART OF SELKIRK AREA



LEGEND

......Very Poor - 500 Imperial gallons per day

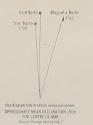
..... Poor - 0-1 Imperial gallons per minute

..... Fair - 1-5 Imperial gallons per minute

.... Good - 5-50 Imperial gallons per minute

Vary Good - 50-500 Imperial gallons per minute

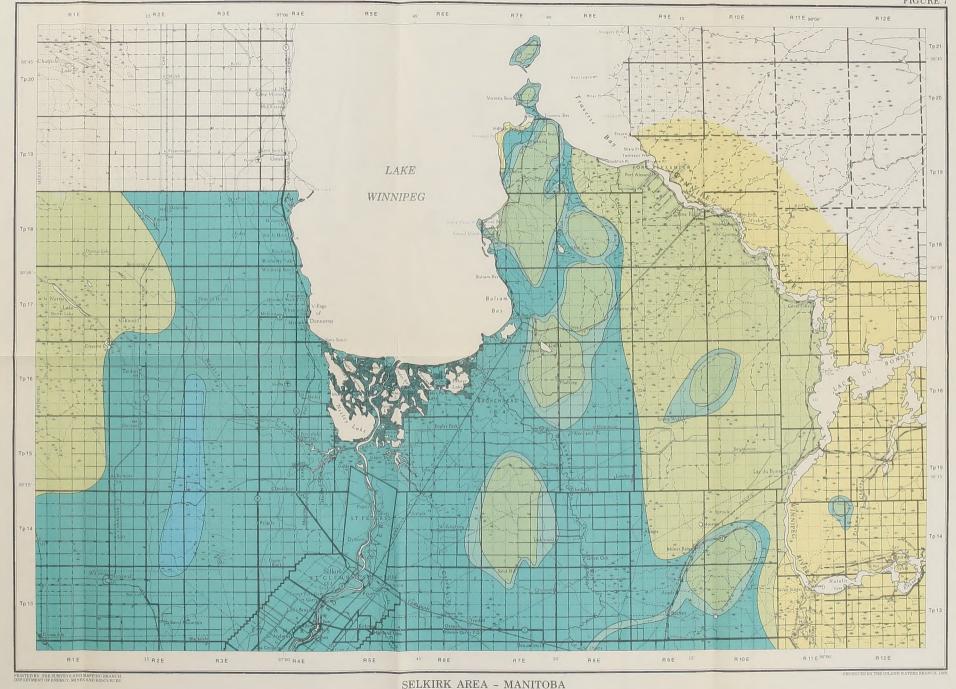
Excellent - 2 million Imperial gallons per de



Compiled by J.E. Charron
To accompany Report by J.E. Charron.

Base map prepared by the Surveys and Mapping Branch
Cartography by the Inland Waters Branch, 1969



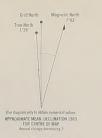


GROUNDWATER AVAILABILITY

SCALE 1:250,000

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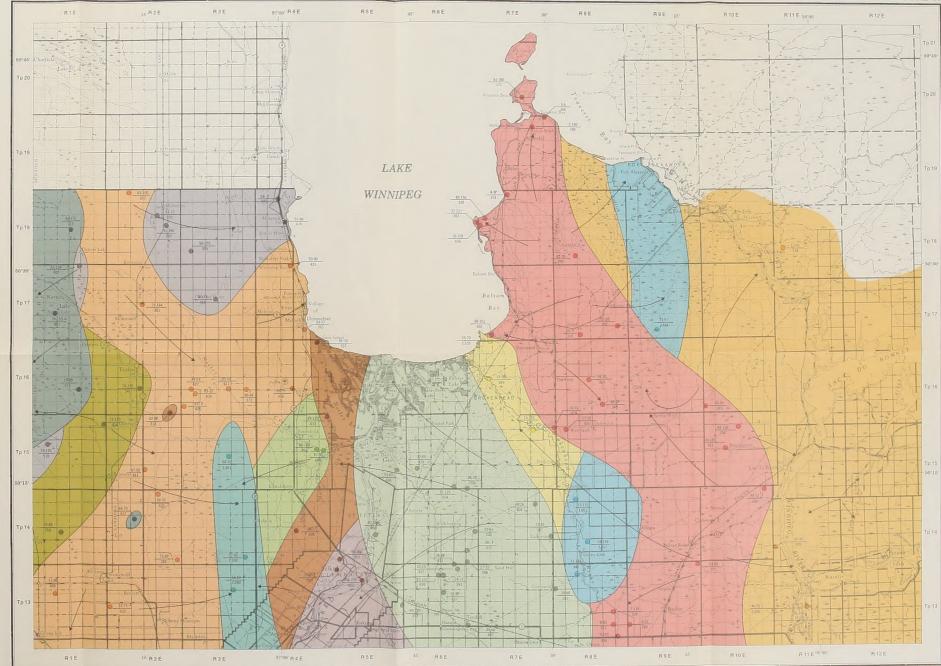




Base map prepared by the Surveys and Mapping Branch



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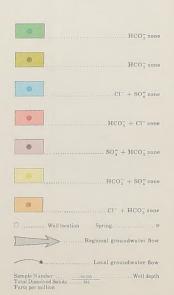
SELKIRK AREA - MANITOBA

**GROUP ZONATION MAP** 

SCALE 1:250,000

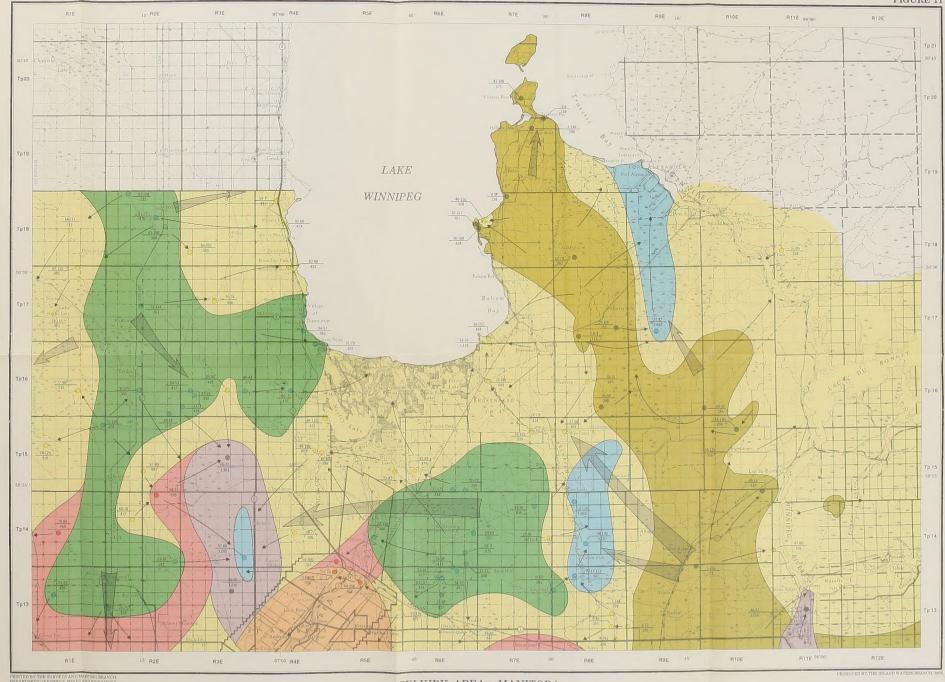
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SELKIRK AREA - MANITOBA A HYDROCHEMICAL INTERPRETATION OF DIRECTION OF GROUNDWATER MOVEMENT

SCALE OF KILOMETRES

#### LEGEND

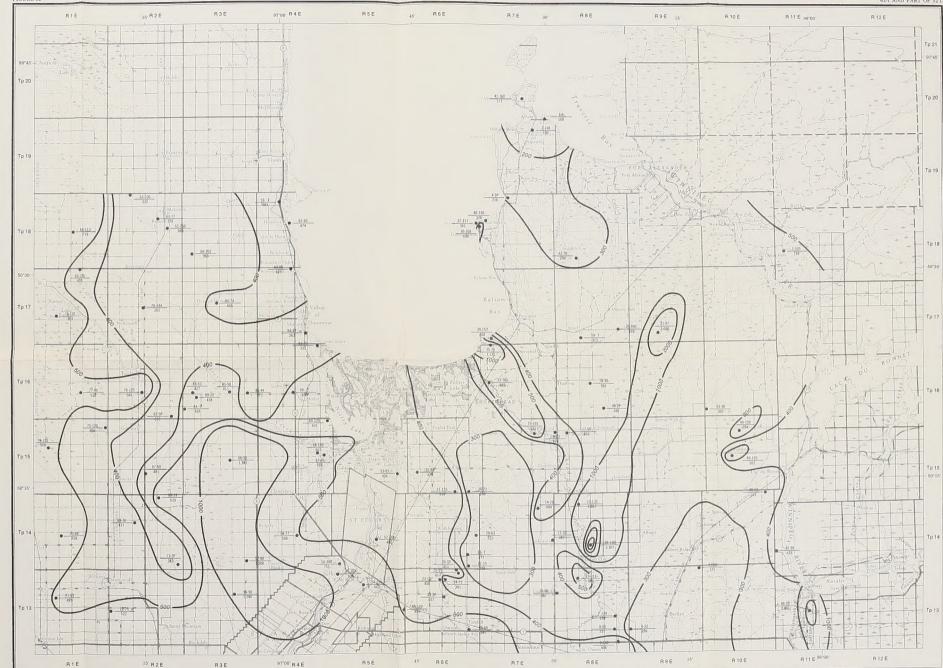
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pSprin
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Sample Number

Crid Horth 
True North 
1798

Dis Gagsan only to salas numerical values
APPROXIMANT MEAS CECUNATION 1569

Compiled by J.E. Charron to accompany Report by J.E. Charron Base map prepared by the Surveys and Mapping Branc

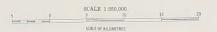




PRINTED BY THE SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES.

SELKIRK AREA - MANITOBA

ISOCONS OF TOTAL DISSOLVED SOLIDS



SCALE 1:260,000 5 1

#### Table 2—Chemical Analyses of Groundwater for Hydrochemical Interpretation

					Chemi	ical Co	nstitue	nts + R	tios in o	epm (Equ	ivalents p	er millio	n)									
Sample Number	Group	Calcium <sub>P</sub> Ca	Magnesium ,Mg	Sodium , Na	Chloride ,C7	Sulphate ,504	Bicarbonate ,HCO3	rMg/pCa	*Na/pMg	ySO4/pCl	$\frac{rG - rNa}{rG}$ (b.c.i.)	V (rca) (rSO4)	V (PHCO3)2 (PCa) (Kr1 eq.)	V(r,Ca) (r,HCO3) (pH eq.)	Total Dissolved Solids of six ions used	Ionic Strength (µ)	3.618õ (∆pH)	Temperature and Testing (°C)	Correction for Temperature (0)	hq	θ + ΔpH + pH eq. (pH eq. corrected)	pH eq. corrected from scale
ATE	GORY																					
41	1a	2,13	1.17	0.07	0.01	0.14	3.16	0.55	0.06	14.00	- 6.00 - 6.50	0.55	2.77	2.59 4.24	6.68	0.005	0.26	23.8	+0.02	7.7	2.87	7.3
44	19	3.50	1.37	0.15	0.02	0.00	5.36	0.42	0.09	11.50	- 6.30	0.90	4.65	4.33	11.28	0.008	0.33	23.8	+0.02	7.9	4.59	6.9
19	9.9	4.13	1.64	0.13	0.16	0.64	5.10	0.40	0.08	4.00	+ 0.19	1.62	4.75	4.59	11.80	0.009	0.35	23.8	+0.02	7.5	4.96	6.8
36	11	4.52	3.25	0.49	0.12	1.10	7.15	0.72	0.15	9.17	- 3.08	2.23	5.27	5.68	16.63	0.013	0.42	23.7	+0.02	7.9	6.12	6.6
3	1b <sub>1</sub>	2.40	0.52	0.12	0.003	0.30		0.22	0.23	100.00	-39.00	0,85	2.61	2.55	6.06	0.005	0.26	23.6	+0.02	8.1	2,83	7.3
2	11	2.29	0.83	0.32	0.02	0.34	3.11	0.36	0.39	17.00	-15.00	0.88	2.81	2.67	6.91	0.005	0.26	23.7	+0.02	8.1	2.95	7.3
4	11	3.08	1.00	0.09	100.0	0.41	3.72	0.32	0.09	410.00	-89.00 -25.00	1.12	3.49	3,38	8.30	0.006	0.28	23.9	+0.02	7.9	3.68	7.1
20	11	2.95	1.85	0.74	0.06	0.22	6.13	0.66	0.86	20.83	-17.50	0.81	4.10	3.73 4.25	12.52	0.009	0.35	24.2	+0.02	7.8	4.10	6.5
38	11	3.23	2.98	0.36	0.03	1.03	5.56	0.92	0.12	34.33	-11.00	1.82	4.64	4.24	13.19	0.010	0.33	24.1	+0.02	7.9	4.63	6.9
37	91	3.44	2.66	0.67	0.05	0.83	5.95	0.77	0.25	16.60	-12.40	1.69	4.96	4.52	13.60	0.010	0.37	23.8	+0.02	7.9	4.91	6.
18	10	3.37	3.40	0.50	0.03	1.17	6.11	1.01	0,15	39.00	-15.67	1.99	5.01	4.54	14.58	0.015	0.45	23.8	+0.02	7.8	5.01	6.1
5	1b2	5.24	1.78	0.24	0.01	0,22	5.00	0.55	0.13	22.00	-23.00	0.84	5.08	5.12	10.49	0.008	0.33	23.7	+0.02	7.8	5.47	6.3
43	35	4.05	2.40	0.25	0.01	0.17	6.47	0.59	0.10	17.00	-24.00	0.83	5.53	5.12	13.55	0.010	0.37	23.9	+0.02	7.6	5.51	6.
45	34	3.70	5.07	1.02	0.05	1.15	8,80	1.37	0.20	23.00	-19.40	2.06	6.59	5.64	19.59	0.020	0.52	24.0	+0.02	8.0	6.18	6.
6	le,	1.50	1.54	2.24	0.76	0.30	4.18	1.03	1.45	0.39	- 1.95	0.67	2.97	2.50	10.52	0.007	0.31	23.7	+0.02	8.0	2.83	7.
10	.,	2.46	1.38	2.07	0.09	0.70	5.28	0.56	1.50	7.78	-22.00	1.31	4.09	3.60	11.98	0.008	0.33	23.8	+0.02	7.9	3.95	7.0
7	102	1.33	0.93	3.24	0.50	1.94		0.70	3.48	3.88	~ 5.48	1.61	2.26	1.98	10.89	0.008	0.33	23.7	+0.02	7.7	2.33	
8	11	1.55	1.95	2,65	0.21	1.92	3.98	1.26	1.36	9.14	-11.62	1.73	2.91	2.48	12.26	0.009	0.35	23.9	+0.02	8.1	2.85	7.
17	10	1.89 2.33	1.55	3.22 3.91	1.05	2.94	3.57 4.16	0.78	2.46	17.29 2.58	-17.94 - 2.72	2.36	2.89 3.42	2.60 3.11	13.34 15.75	0.010	0.37	23.7	+0.02	7.8	2.99 3.52	7.
6	lea	2.24	2.62	2.37	0.15	2.52	4.80	1.17	0.90	16.80	-14.80	2.36	3.72	3.38	14.70	0.011	0.39	23.8	+0.02	7.8	3.69	7.
9	11	2.19	2.83	2.46	0.44	1.65		1.29	0.86	3.75	- 4.59	1.90	3.90	3.37	14.77	0.011	0.39	23.6	+0.02	8.0	3.78	

### Table 2—Chemical Analyses of Groundwate for Hydrochemical Interpretation (Cont'd)

									for Hydr	rochemi	cal Interp	pretatio	on (Con	t'd)								
					Chen	nical Co	nstitue	nts + P	latios in e	pm (Equ	iivalents pi	er millio	n)									
Sample Number	Group	Calcium <sub>P</sub> Ca	Magnesium phg	Sodium , Na	Chtoride pCI	Sulphate 204	Bicarbonate pHCO3	ph/8/pCa	Nalphis	1504/101	rCI - rVa (b.e.i.)	V(FCa) (5504)	3(pHCO3)2 (pCa) (Kr <sub>1</sub> eq.)	V(rCa) (rHCO3) (pH cq.)	Total Dissolved Solids of six ions used	Ionic Strength (µ)	3,618õ (∆pH)	Temperature and Testing (°C)	Correction for Temperature (0)	hq	θ + ΔpH eq. (pH eq. corrected)	pH eq. corrected from scale
11	2	1.28	1.20	6.52	3.13	3.02	2.70	0.94	5.43	0.96	- 1.08	1.97	2.11	1.86	17.85	0.012	0.40	23.6	+0.02	7.7	2.28	7.5
13	10	7.53	3.37	15.52	17.60 23.43	7.62 14.32	1.53	0.45	7.52	0.43	+ 0.06	7.57	2.60 3.24	3.39 4.13	53.17 79.39	0.036	0.69	23.7	+0.02	7.2	4.10 5.08	7.0
39	79	25.40		50.00	61.90	22.11	1.36	0.38	5.24	0.36	+ 0.19	23.70	3.61	5.88	170.31	0.114	1.23	23.8	+0.02	6.7	7.13	6.5
15	3	0.30	0.25	8.87	0.86	1.31	6.87	0.83	35.48	1.52	- 9.31	0.63	2.42	1.44	18.46	0.010	0.37	23.8	+0.02	7.9	1.83	7.7
33	11	0.26	0.03		0.71	2.73	8.05	0.11	388.33	3.85	-15.41	0.64	2.56	1.45	23.29	0.013	0.42	23.7	+0.02	8,4	1.89	7.7
35	"	0.27	0.10	17.83	3.21	7.75	6.92	0.37	178,30	2.41	- 4.55	1.45	2.35	1.37	36.08	0.022	0.55	23.9	+0.02	7.8	1.94	7.6
CATE	GORY	11, UN	IT A																			
30	13	2.75	1.02	0.11	0.02	0.35	3.47	0.37	0.11	17.50	- 4.50 - 3.00	0.98	3.21	3.09	7.72	0.006	0.28	23.8	+0.02	7.9	3.39	7.2
29	39	2.88	1.25	0.12	0.03	0.35	4.16	0.43	0.10	11.66	- 1.42	1.00	3.49	3.33	9.46	0.006	0.28	23.7	+0.02	8.1	3,64	7.1
28	99	3.18	1.69	0.32	0.12	0.42	4.56	0.53	0.19	2.00	- 0.52	1.16	4.04	3.81	10.38	0.008	0.33	24.6	0.00	8.0	4.14	7.0
12	1b	3.12	3.37	0.74	0.18	1.45	5.69	1.08	0.22	8.06	- 3.11	2.13	4.66	4.21	14.55	0.015	0.45	26.6	+0.02	7.9	4.68	6.9
10	11	3.29	3.64	0.59	0.33	0.51	6.75	1.11	0.16	1.55	- 0.79	1.30	5.31	4.71	15.11	0.015	0.45	23.6	+0.02	7.9	5.18	6.8
14		3:24	3.47	1.13	0.41	0.49	6.97	1.07	0.33	1.20	- 1.76	1.26	5.40	4.75	15.71	0.015	0.45	24.6	0.00	7.9	5.20	6.8
23	17	3.73	4.20	1.07	1.00	0.84	7.18	1.13	0.25	0.84	- 0.07	1.77	5.77	5.18	18.02	0.018	0.49	24.5	+0.01	7.8	5.68	6.7
24	101	3.02	4.20	0.59	0.45	0.77	6.57	1.39	0.14	1.71	- 0.31	1.52	5.07	4.45	15.60	0.016	0.47	24.5	+0.01	7.8	4.93	6.8
26	17	3.78	3,97	0,33	0.19	0.71	6.97	1.05	0.08	3.74	- 0.74	1.64	5.68	5.13	15.95	0.016	0.47	24.5	+0.01	7.9	5.61	6.
22	50	4.08	4.39	0.40	0.29	0.88	7.46	1.08	0.09	3.03	- 0.38	1.89	6.10	5.52	17.50	0.018	0.49	24.5	+0.01	7.7	6.02	6.7
31	1c2	2.91	4.84	0.38	0.24	0.89	6.74	1.66	0.08	3.71	- 0.58	1.61	5.09	4.43	16.00	0.016	0.47	23.8	+0.02	8.0	4.92	6.8
25	99	3.69	4.05	0.41	0.25	0.71	6.97	1.10	0.10	2.84	- 0.64	1.62	5.64	5.07	16.08	0.016	0.47	24.4	+0.02	7.6	5.56	
32	19	3.59	4.51	1.11	0.54	1.51	7.20	1.26	0.25	2,80	- 1.06	2.33	5.71	5.08	18.46	0.018	0.49	23.7	+0.02	7.9	5.59	6.1
53	1c3	2.46	4.53	1.22	0.76	1.43	6.20	1.84	0.27	1.88	- 0.61	1.88	4.56	3.91	16.60	0.013	0.42		+0.05	8.1	4.38	
55	11	3.35	5.63	0.61	0.34	0.85	7.23	1.41	0.13	3.00	- 0.79 - 1.05	1.85	5.59	4.92	17.29	0.013	0.42	22.0	+0.06	8.1	5.40	
52	10	3.80	7.72	0.45	0.22	2.00	9.06	2.03	0.11	25.00	- 0.06	2.76	6.78	5.88	24.23	0.014	0.44	24.2	+0.03	8.1	6.47	6.6
7/		5.00	1.12	0.03	V.00	2.00	2.00	2.00	0.21	20.00	0.00	2.70	0.70	3,00	-4.23	0.024	0.07	24.2	-3.02	0.1	0.47	0.

### Table 2—Chemical Analyses of Groundwater for Hydrochemical Interpretation (Cont'd)

				_	Chemi	cal Con	stituer	ts + Ra	itios in o	pm (Eq	aivalents p	er milli	on)									
Sample Number	Group	Calcium ,Ca	Magnesium , Mg	Sodium pVa	Chloride ,C?	Sulphate 2504	Bicarbonate ,HCO3	rM8/rCa	Na/pMg	1504/10	$\frac{\rho Cl - \rho Na}{\rho Cl} \text{ (b.c.i.)}$	VIPCO) (5504)	3(1,HCO <sub>3</sub> ) <sup>2</sup> (1,Ca) (Kr <sub>1</sub> eq.)	√(pCa) (pH cq.) (pH cq.)	Total Dissolved Solids of six ions used	Ionic Strength (U)	3,618õ (∆pH)	Temperature and Testing (°C)	Correction for Temperature (0)	PH	0 + ΔpH + pH eq. (pH eq. corrected)	pH eq. corrected
82	2	0.50	4.75	0.74	0.34	0.66	5.22	9.50	0.16	1.94	- 1.18	0.57	2.39	1.62	12.21	0.009	0.35	22.7	+0.05	8.7	2.02	7.1
91	97	0.65	5.30	0.83	0.34	0.81	5.68	8.15	0.16	2.38	- 1.44	0.73	2.76	1.92	13.61	0.010	0.37	22.7	+0.05	8.7	2.34	7.3
89 58	99	0.96	6.25 7.34	1.26	0.45	1.47	6.71 8.38	6.51 7.89	0.20	3.27 1.55	- 1.80 - 1.68	1.19	3.51 4.03	2.54	17.10 20.47	0.013	0.42	22.6 22.3	+0.05	8.5 8.4	3.01	7.
54	3	0.85	4.92	5,65	3.84	2.85	5.24	5.79	1.15	0.74	- 0.47	1.56	2.86	2.11	23.35	0.016	0.47	22.4	+0.05	8.7	2.63	7.
50	19	0.49	7.98	4.78	4.06	3.75	5.98	16.29	0.60	0.92	- 0.18	1.36	2.62	1.71	27.04	0.020	0.52	22.7	+0.05	8.8	2,28	7.
51	99	1.18	7.24	7.83	7.16	3.58	6.05	6.14	1.08	0.50	- 0.09	2.06	3.51	2,67	33.04	0.023	0.56	22.7	+0.05	8.4	3.28	7.
87	4	2.36	8.39	3.35	1.64	4.56	7.65	3.56	0.40	2.78	- 1.04	3.28	5.17	4.25	27.95	0.022	0.55	22.6	+0.05	8.3	4.85	6.
88	la C	2.62	8.55	3.87	1.92	4.81	7.85	3.26	0.45	2.51	- 1.02	3.55	5.45	4.54	29.62	0.023	0.56	22.5	+0.05	8.4	5.15	6.
57	5	4.84	8.13	7.48	7.90	6.85	6.15	1.68	0.92	0.87	+ 0.05	5.76	5.68	4.63	41.35	0.031	0.64	22.0	+0.06	7.8	5.33	6.
56	37	6.19	8.55	6.52	3.24	10.06	7.95	1.38	0.76	3.10	- 1.01	7.89	7.31	7.02	42.51	0.029	0.62	22.0	+0.06	8.0	7.70	6.
66	91	6.04	9.87	6.96	6.09	10.37	6.87	1.63	0.71	1.70	- 0.14	7.91	6.58	6.44	46.20	0.036	0.69	22.5	+0.05	8.2	7.18	6.
86	6a1	1.46	3.98	1.57	0.71	0.98	5.51	2.73	0.39	1.38	- 1.21	1.20	3.54	2.84	14.21	0.010	0.37	22.7	+0.05	8.4	3.26	7.
73	91	1.42	5.21	1.00	0.68	0.75	6.26	3.67	0.19	1.10	- 0.47	1.03	3.82	2.98	15.32	0.011	0.39	23.8	+0.02	8.5	3.39	7
79	99	2.30	4.53	0.78	0.37	0.59	6.87	1.97	0.17	1.59	- 1.11	1.16	4.77	3.98	15.44	0.011	0.39	23.9	+0.02	8.3	4.39	6
90	- 17	2.28	5.78	1.09	0.39	0.99	7.85	2.54	0.19	2.54	- 1.79	1.50	5.20	4.22	18.38	0.014	0.44	22.7	+0.05	8.6	4.71	6.
68	11	2.41	5.00	2.52	1.58	1.46	6.95	2.07	0.50	0.92	- 0.59	1.88	4.88	4.09	19.92	0.014	0.44	22.6	+0.05	8.3	4.58	6.
85	612	1.98	4.58	1.43	0.59	1.01	6.47	2.31	0.31	1.71	- 1.42	1.41	4.36	3.58	16.06	0.012	0.40	22.8	+0.04	8.3	4.02	7.
84	91	2.47	4.67	1.26	0.51	0.91	7.08	1.89	0.27	1.78	- 1.47	1.50	4.98	4.18	16.90	0.012	0.40	22.8	+0.04	8.2	4.62	6
81	11	2,56	4.85	1.04	0.48	0.74	7.31	1.89	0.21	1.54	- 1.17	1.38	5.15	4.32	16.98	0.013	0.42	22.9	+0.04	8.2	4.78	6
83	11	2.56	4.83	1.22	0.51	0.89	7.36	1.89	0.25	1.75	- 1.39	1.51	5.18	4.34	17.37	0.013	0.42	22.7	+0.05	8.2	4.81	6
67		2.71	5.44	1.33	0.56	1.05	7.42	2.00	0.24	1.88	- 1.38	1.69	5.30	4.48	18.31	0.014	0.44	22.0	+0.06	8.3	4.98	6
63	6b	1.98	4.35	0.39	0.07	0.71	6.02	2.20	0.09	10.14	- 4.57	1.19	4.16	3.45	13.52		0.37	22.0	+0.06	8.2	3.88	7.
94	17	2.69	3.62	0.65	0.27	0.85	5.95	1.35	0.18	3.15	- 1.41	1.51	4.57	4.00	14.03	0.011	0.39	22.7	+0.05	8.6	4.44	6
93	19	2.42	4.71	0.87	0.28	1.15		1.95	0.18	4.11	- 2.11	1.67	5.00	4.17	16.61	0.012	0.40	22.7	+0.05	8.5	4.62	6
71	19	2.67	6.26	0.48	0.20	0.62		2.34	0.08	3.10	- 1.40	1.29	5.50	4.59	18.13	0.014	0.44	23.8	+0.02	8.3	5.05	6
72		3.74	5.57	0.36	0.003	0.81	7,97	1.49	0.06	270.00	-119.00	1.74	6.19	5.46	18.45	0.014	0.44	23.7	+0.03	8.4	5.93	6

### Table 2—Chemical Analyses of Groundwater for Hydrochemical Interpretation (Cont'd)

					Chen	ical Cor	stituc	nts + R	stios in c	pm (Equ	ivalents p	er millio	n)									
Sample Number	Group	Calcium ,Co	Magnesium <sub>t</sub> Mg	Sodium Na	Chloride <sub>r</sub> Cl	Sulphate ,SO <sub>4</sub>	Bicarbonate PHCO3	Mg/rCa	Na/rMg	1204/101	rCl - rNa (b.e.i.)	V(rCa) (pSOa) (S1)	3(rHCO3)2 (rCa) (Kr3 eq.)	V(rCa) (rHCO <sub>3</sub> ) (pH eq.)	Total Dissolved Solids of six ions used	Ionic Strength (µ)	3.618õ (ДрН)	Temperature and Testing (°C)	Correction for Temperature (8)	Hd	$\theta + \Delta pH + pH eq.$ (pH eq. corrected)	pH eq. corrected
75	7	2.84	4.85	0.24	0.31	0.32	7.05	1.71	0.05	1.03	+ 0.23	0.95	5.21	4.47	15.61	0.012	0.40	23.6	+0.03	8.3	4.90	6.8
76	111	2.73	7.43	0.40	0.93	0.90	7.99	2.72	0.05	0.97	+ 0.57	1.57	5.59	4.64	20.38	0.012	0.47	23.6	+0.03	8.5	5.17	6.8
70	- 11	3,74	9.13	0.61	1.16	1.05	7.90	2.44	0.07	0.91	+ 0.47	1.98	6.16	5.44	23.59	0.019	0.51	23.9	+0.02	8.2	5.97	6.7
77	8	1.98	6.75	0.91	0.24	3.10	6.34	3.41	0.13	12.92	- 2.79	2.48	4.00	200	10.20	0.016	0.47	22.6	+0.03	8.4	4.04	7.0
69	11	1.84	6.08	0.52	0.10	5.91	7.58	3.30	0.13	59.10	- 2.79 - 4.20	3.30	4.30	3.54	19.32	0.016	0.47	23.5	+0.03	8.3	4.17	7.0
64	91	3.16	6.67	2.65	0.16	6.12	6.41	2.11	0.40	38.25	- 4.20	4.40	5.06	4.50	25.17	0.018	0.49	22.7	+0.05	8.3	5.08	6.8
78	59	2.90	9.21	2,48	1.44	4.16	7.22	3.18	0.27	2.89	- 0.72	3.47	5.33	4.57	27.41	0.021	0.55	23.6	+0.03	8.4	5.15	6,8
CATE	GORY	II UNI	T B																			
621	la.	1.93		1.39	0.38	0.80	c 9¢	1.86	0.39	2.11	- 2.66	1.24	4.05	3.36	13.94	0.010	0.37	22.2	+0.06	8.2	3.79	7.1
61	***	1.98	3.76	1.35	0.37	0.97	5.92	1.90	0.36	2.62	- 2.65	1.39	4.03	3.42	14.35	0.010	0.37	22.2	+0.06	8.2	3.87	7.1
80	17	2.17	4.23	2.00	0.73	1.95	5.92	1.95	0.47	2.67	- 1.74	2.06	4.24	3.58	17.00	0.011	0.42	22.7	+0.05	8.3	4.05	7.0
60	1b	1.49	3.61	2.17	0.31	1 46	5.46	2.42	0.60	4.71	- 6.00	1.47	3.54	2.85	14.50	0.011	0.39	22.1	+0.06	8.2	3.20	7.2
65	11	1.65	4.48	1.52	0.10	1.47	6.13	2.72	0.34	14.70	- 14.20	1.56	3.95	3.18	15.35	0.011	0.39	22.4	+0.05	8.2	3.62	7.1
59	10	1.92	4.86	1.83	0.31	1.45	6.85	2.53	0.38	4.68	- 4.90	1.67	4.48	3.63	17.22	0.011	0.40	22.0	+0.06	8.3	4.09	7.0
92	1)	2.07	5.57	1.57	0.37	1.53	7.41	2.69	0.28	4.14	- 3.24	1.78	4.84	3.92	18.52	0.014	0.44	22.6	+0.05	8.6	4.41	6.9
74	99	2.62	5.58	1.43	0.37	1.66	7.99	2.13	0.26	4.49	- 2.86	2.09	5.50	4.58	19.65	0.014	0.45	23.6	+0.03	8.4	5.06	6.8
CATE	GORY	Ш																				
47	1	3.20	2.67	1.70	0.21	2.25	5.10	0.83	0.64	10.71	- 7.10	2.68	4.37	4.04	15.13	0.012	0.40	23.9	+0.02	7.9	4.46	6.9
1	11	4.33	4.83	3.70	0.95	4.50	7.54	1.12	0.77	4.74	- 2.89	4.41	6.26	5.71	25.85	0.020	0.52	23.6	+0.02	8.1	6.25	6.6
46	11	12.38	12.17	7.22	0.42		5.54	0.98	0.59	61.17	-16.19	17.83	7.24	8.23	63.42	0.057	0.87	23.9	+0.02	7.6	9.17	6.3

### Table 6—Chemical Analyses of Groundwater in the Selkirk Area, Man Analyzed by Inland Waters Branch, Water Quality Division,

												CH	EMICAL (	CONST	TTUE	NTS IN	PARTS PI	ER MILLI	ON					
		(2)	6	Unit)		(CO <sub>2</sub> )	25°C)	HARDN	IESS															
Sample No.	Location	Depth of Well (ft.)	Temperature (°C)	Colour (Hazen I	ЬH	Carbon Dioxide	Conductance (Micromhos at	Non- Carbonate	Total	Total Alkalinity as CaCO <sub>3</sub>	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Iron (Fe)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (CI)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Silica (SiO <sub>2</sub> )	Sum of Constituents	% of Sodium	SAR
	NW-17-18-11E	112	6.1	10	8.1	6	1,123	81.0	458	377	86.7	58.7	85.0	5.3	0.05	460	216.0	33.6	0.86	0,6	15	728	28	1.7
2	SW-35-19-7E	140	5.0	5	8.1	2	330	0.0	156	156	45.9	10.1	7.4	2.8	0.23	190	16.3	0.7	0.18	0.2	13	190	9	0.2
3	SW-1-20-7E	SP	5.6	10	8.1	2	286	10.0	146	136	48.1	6.3	2.8	1.6	0.27	166	14.2	0.1	0.14	0.2	13	168	4	0.1
4	NW-33-18-7E	SP	5.6	5		5	376	18.0	204	186	61.8	12.1	2.0	1.7	0.15	227	19.5	0.1	0.09	0.3	9	218	2	0.0
		151	5.6	- 5	7.8	8	466	1.0	251	250	64.9	21.6	5.5	2.1	1.40	305	10.4	0.2	0.16	0,4	16	271	3	0.1
	SW-7-13-9E	52	6.1	5	8.0	4:	498	0.0	152	209	30.1	18.7	51.5	4.1	0.41	255	14.2	27.1	0.66	2.2	12	286	42	1.8
	SE-14-13-8E	134	7.2	5	7.7	6	523	0.0	113	148	26.6	11.3	74.5	3.6	0.35	180	93.0	17.8	1.14	0.2	11	328	58	3.1
	SE-11-13-8E	8.5	6.1	10	8.1	3	571	0.0	175	199	31.0	23.7	61.0	3.1	0.44	243	92.2	7.5	0.71	2.5	10	351	43	2.
	SW-1-13-8E	142	6.1	10	8.0	5	674	0.0	251	260	43.8	34.4	56.5	3.1	1.20	317	79.1	15.5	0.58	2.6	14	406	33	1
	SW-30-13-8E	60	6,1	10	7.9	8	660	9.0	347	338	66.0	44.3	13.5	3.6	1.08	412	24.4	11.8	0.23	0.3	14	381	8	0.
	SE-32-13-8E	123	6.1	10	7.7	8	923	0.0	124	135	25.6	14,6	150.0	4.5	0.15	165	145.0	111.0	0.92	0.4	8	541	72	5.
	SE-13-14-7E	30	6.1	10	7.9	7	647	40.0	325	285	62.6	41.0	17.0	4.2	1.61	347	69.5	6.5	0.25	0.2	15	387	10	0.
	SE-32-14-8E	135	6.1	10	6.9	18	2,702	469.0	546	77	151.0	41.0	357.0	9.5	0.08	94	366.0	624.0	0.90	2.2	9		58	6.
	NE-26-14-7E	26	6.1	10	7.9	8	699	0.0	336	349	65.0	42.2	26.0	4,3	0,74	425	23.7	14.6	0.27	1.1	17	404	93	0.
	NW-26-15-7E	105	6.1	10	7.9	8	872	0.0	27	344	6.1	3.0	204.0	3.5	0.12	419	63.0	30.4	5.40	0.3	13	535	32	16.
	NE-25-15-7E	73	5.6	10	7.8	7	661	3.0	243	240	44.9	31.8	54.5	3.7	0.20	293	121.0	5.4	0.45	1.3	1.	414	48	
	NE-30-15-8E	50	5.0	10	7.8	5	630	0.0	172	179	37.8	18.9	74.0		0.17	218	141.0	6.0	0.07	1.5	11	401		2
	NE-16-16-8E	30	5,0	10	7.8	9	642	33.0	339	306	67.5	41.4	11.5	4.6 2.8	1.25	373	56.1 30.7	0.9	0.32	0.2	15	385	7 2	0
	SW-4-17-8E SW-12-17-8E		6.1	10	7.5	15	530	34.0	289	255	82.7 56.6	20.0	3.0	3.8	0.92	302	59.8	2.2	0.30	1.1	20	352	25	1
	SW-12-17-8E NW-4-17-9E	100	5.0		7.8	8	3.959	0.0	234 614	248		22.5	630.0	8.8	0.17	121	688.0	831.0	0.30	0.4	13	2.448	69	11
	NW-4-17-9E NW-22-13-6E	97	4.4	10	7.7	18		\$15.0		99	173.0	53.4	9.2	4.0	0.50	455	42.3	10.4	0.27	18.6	13	457	5	0
	NW-22-13-6E SE-33-13-6E	SP		10	7.7		774	51.0	424	373	81.8	51.1	24.5	3.9	0.03	438	40.5	35.3	0.27	0.7	12	458	12	
		107	6.1	10	7.8	11	795	38.0	397	359	74.7	51.1	13.5	3.7	0.03	401	37.2	16.0	0.25	0.7	11	391	7	1
	SW-34-13-6E		5.0	10		10	685	32.0	361	329	73.9		9.5	3.1	0.08	425	34.0	9.0	0.34	15.5	13	417	5	
	NW-35-13-6E	SP	5.6	10	7.6	16	712	38.0	387	349		49.2	7.5	3.1	0.08	425	34.3	6.7	0.03	13.0	13	411	4	
	CNW-35-13-6E	SP	5.0	10	7.9	8	705	39.0	388	349	75.8	48.3	6.7			254	21.1	4.2	0.03	0.3	13	248	6	0
	SW-1-14-6E	12	5.0	10	8.1	3	430	15.0	223	208	53.4	21.8		2.5	0.78	254	20.0	7.4	0.03	0.2	12	271	6	
	SW-12-14-6E	-	5.0	10	8.0	4	470	16.0	244	228	63.7	20,6	7.4	2.4	1.58	235	16.7	0.9	0.00	0.2	12	271	0	0
9	NE-13-14-6E	63	5.6	10	8.1	3	377	14.0	207	193	57.8	15.2	2.8	2.1	1.58	233	16.7	0.9	0.00	0.2	11	223	1 3	

# Table 6—Chemical Analyses of Groundwater in the Selkirk Area, Manitoba (Cont'd) Analyzed by Inland Waters Branch, Water Quality Division, Department of Energy, Mines and Resources

												CH	EMICAL	CONST	TITUE	NTS IN	PARTS P	ER MILLI	ON					
		(Ur.)	(0,)	Unit)		(CO <sub>2</sub> )	25°C)	HARDI	VESS			0					_							
Sample No.	Location	Depth of Well (	Temperature (°	Colour (Hazen	Hd	Carbon Dioxide	Conductance (Micromhos at	Non- Carbonate	Total	Total Alkalinity as CaCO <sub>3</sub>	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Iron (Fe)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (CI)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Silica (SiO <sub>2</sub> )	Sum of Constituents	% of Sodium	SAR
	SE-2-15-6E	72	5.0	10	7.9		360	15.0	189	174	55.2	12.4	2.6	1.9	0.33	212	17.0	0.8	0.00	0.1	12	206	3	0.08
	SE-3-15-6E	125	5.6	10	8.0		688	50.0	387	337	58.3	58.8	8.7	4.5	0.12	411	42.7	8.5	0.16	19.0	11	414	5	0.19
	NE-7-15-6E	69	5.6	10			806	45.0	405	360	71.9	54.8	25.5	4.8	5.10	439	72.6	19.0	0.10	0.4	14	479	12	0.5
	NE-18-16-7E	161	5.6	10		3	1,100	0.0	8	408	2.5	0.4	268.0	7.5	0.04	491	131.0	25.1	4.90	0.5	5	689	97	41.2
	NE-6-17-7E	150	7.2	5	7.6	10	723	0.0	196	208	46.7	19.3	90.0	7.6	0.41	254	130.0	37.1	0.42	0.3	12	468	49	2.8
	SE-6-17-7E	83	5.6	5	7.8	10	1,815	0.0	19	346	5.4	1.2	410.0	12.9	0.06	422	372.0	114.0	6.60	0,4	6	1,135	96	41.5
	SE-24-18-6E	108	8.9	10			714	31.0	389	358	90.6	39.5	11.2	5.0	1.57	436	52.6	4.3	0.14	0.4	19	438	6	0.7
37	SE-24-18-6E	217	7.2	5	7.9		600	7.0	305	298	68.9	32.3	15.5	5.5	0.75	363	40.0	1.8	0.23	0.7	17	361	10	0.3
8	CNE-3-16-8E	SP	3.9	5	7.9	7	589	33.0	311	278	64.8	36.2	8.3	4.3	1.53	339	49.6	0.9	0.09	0.4	17	348	5	0.3
19	NE-9-14-8E	100	7.2	5	6.7	25	7,896	1,679.0	1,747	68	509.0	116.0	1,150.0	24.6	0.38	83	1,062.0	2,195.0	0.40	0.4	9	5,107	58	11.9
10	NW-19-18-7E	150	8.3	5	7.9	6	616	0.0	193	264	49.2	16.8	47.5	8.1	0.48	322	33.7	3,3	0.15	0.3	11	328	34	1.4
11	NW-10-20-7E	179	7.2	10	7.7	6	313	7.0	165	158	42.6	14.2	1.5	1.1	1.47	193	6.7	0.5	0.00	2.7	7	171	2	0.0
12	NE-5-18-8E	70	7.2	5	7.9	6	493	27.0	267	240	75.2	19.2	3.5	3.4	2.78	293	31.9	0.7	0.15	0.1	12	290	3	0.0
13	NW-6-16-10E	50	6.1	5	7.6	15	588	0.0	323	324	81.2	29.2	5.7	4.0	1.20	395	8.1	0.4	0.30	0.5	21	345	4	0.
14	NE-28-15-10E	150	7.8	5	8.1	4	491	0.0	244	268	70.1	16.7	18.5	1.6	1.11	327	11.1	0.6	0.25	0.1	14	294	14	0.
15	NW-16-15-10E	120	5.6	5	8.0	8	833	8.0	439	431	74.1	61.7	23.5	5.8	0.59	525	55.2	1.8	0.33	3.0	19	503	10	0.4
16	SW-22-13-11E	52	6.7	5	7.6	13	2,431	951.0	1,228	277	248.0	148.0	166.0	6.9	0.74	338	1,234.0	14.9	0.44	2.7	19	2,006	23	2.
17	SW-18-14-11E	90	7.2	5	7.9	6	705	39.0	294	255	64.2	32.5	39.0	4.5	4.55	311	108.0	7.6	0.74	0.7	16	426	22	0.5
8	NW-36-14-10E	12	5.6	5	8.0	6	562	0.0	281	307	59.1	32.4	17.0	4.4	0.71	374	10.4	1.3	0.71	2.4	20	332	11	0.
19	SW-12-13-6E	60		5	8.1	7	1,059	123.0	577	454	76.2	93.9	19.5	7.1	0.08	553	96.2	28.3	0.36	37.0	16	647	7	0.
50	aM.H.Selkirk	300	6.7	3	8.8	1	1,294	125.0	424	299	9.9	97.0	110.0	15.0	0.10	327	180.0	144.0	0.36	3.3	12	751	35	2.
1	bD.V.S.Selkirk	307	18.3	8	8.4	3	1,588	118.0	421	303	23.6	88.0	180.0	12.0	0.10	369	172.0	254.0	0.32	3.4	13	928	47	3.
2	CL-203-P.S.P.	157	6.1	3	8.1	6	791	39.0	436	397	61.9	68.4	10.4	3.9	0.11	484	41.0	7.9	0.30	14.0	14	460	5	0.
3	NW-12-15-5E	80	7.8	3	8.1	5	740	40.0	350	310	49.3	55.1	28.0	5.3	1.75	378	68.7	27.0	0.30	0.1	15	436	15	0.
4	dL-77-P.S.C.	250	6.7	3	8.7	1	1,158	27.0	289	262	17.1	59.8	130.0	13.0	0.37	301	137.0	136.0	0.28	0.5	11	662	48	3.
5	NE-12-13-5E	120	6.1	3	8.1	6	780	43.0	405	362	67.2	57.6	14.0	4.3	0.03	441	49.0	12.0	0.24	20.0	13	455	7	0.
	SE-26-13-3E	50	5.6	3	8.0	8	2,067	341.0	739	398	124.0	104.0	150.0	11.0	0.99	485	483.0	115.0	0.20	0.1	13	1.240	2	2.
	NW-1-14-3E	80	9.4	3	7.8	10	2,000	341.0	649	308	96.9	98.9	172.0	11.0	0.43	375	329.0	280.0	0.23	0.4	10	1.200	36	2.
8	NW-15-14-4E	77	5.6	3	8.4	3	877	0.0	414	419	18.7	89.2	45.0	5.2	0.19	490	54.5	26.0	0.34	0.1	15	506	19	1.

## Table 6—Chemical Analyses of Groundwater in the Selkirk Area, Manitoba (Cont'd) Analyzed by Inland Waters Branch, Water Quality Division, Department of Energy, Mines and Resources

												CHI	EMICAL	CONST	TITUE	NTS IN	PARTS P	ER MILLI	ION					
		(ft.)	6	Unit)		(CO <sub>2</sub> )	25°C)	HARDN	ESS															
Sample 140.	Location	Depth of Well (	Temperature (°C)	Colour (Hazen !	Hd	Carbon Dioxide	Conductance (Micromhos at	Non- Carbonate	Total	Total Alkalinity as CaCO <sub>3</sub>	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Iron (Fe)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (CI)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Silica (SiO <sub>2</sub> )	Sum of Constituents	% of Sodium	SAR
59	SE-32-18-4E	-	5.6	3	8.3	3	752	0.0	339	343	38.4	59.1	42.0	5.7	0.35	418	69.6	11.0	0.56	0.1	11	443	21	1.0
50	SE-7-18-3E	202	5.6	3	8.2	3	658	0.0	255	273	29.8	43.9	50.0	5.1	1.80	333	70.3	11.0	0.46	0.1	8	385	29	1.
	NW-23-18-2E	77	6.1	3	8.2	4	638	0.0	287	296	39.6	45.7	31.0	6.0	0.11	361	46.6	13.0	0.62	0.1	10	370		0.
		260	5.6	0	8.2	4	628	0.0	276	293	38.6	43.6	32.0	6.5	2.85	357	38.4	13.5	0.72	0.1	8	360	19	0.
		100	5.6	3	8.2	4	590	16.0	317	301	39.7	52.9	9.0	3.5	0.06	367	34.3	2.6	0.43	0.2	9	332	6	0.
	NW-15-18-1E	113	8.9	0		3	1,082	171.0	492	321	63.4	81.1	61.0	7.0	2.20	391	294.0	5.8	0.43	0.2	11	719	21	1.
	NE-34-17-1E	126	5.0	3		4	677	0.0	307	307	33.1	54.5	35.0	5.9	3.70	374	70.8	3.5	0.45	0.8	10	402	19	0.
	NE-15-15-3E	55	5.0	0	8.2	4	2,121	453.0	797	344	121.0	120.0	160.0	12.0	1.10	419	498.0	216.0	0.18	0.1	11	1,361	30	2.
	NW-10-15-2E	80	7.8	3	8.3	4	875	36.0	408	372	54.4	66.1	26.0	5.1	0.03	453	50.4	20.0	0.26	25.0	11	481	12	0.
	NW-35-14-2E	31	6.1	3	8.3	4	941	23.0	371	348	48.3	60.8	58.0	7.5	0.10	424	69.9	56.0	0.22	0.1	10	520	25	1.
	NW-21-14-2E	70	10.6	3	8.3	4	734	16.0	396	380	36.8	73.9	12.0	4.2	0.02	463	28.4	3.4	0.23	19.0	11	417	6	0.
	NW-16-14-1E	88	6.1	3	8.2	5	1,230	249.0	644	395	74.9	111.0	14.0	8.4	0.03	482	50.6	41.0	0.15	215.0	16	768	4	0.
	NE-20-13-1E	57	6.7	3	8.3	4	826	52.0	447	395	53.6	76.1	11.0	6.9	0.03	482	30.0	7.2	0.24	59.0	14	495	5.	0.
	NW-18-13-2E	75	5.6	8	8.4	3	786	67.0	466	399	75.0	67.7	8.3	12.0	0.14	466	38.8	0.1	0.23	56.0	13	522	4	0.
	CNE-1-14-2E	SP	4.4	3	8.5	2	653	19.0	332	313	28.5	63.4	23.0	5.5	0.04	364	36.0	24.0	0.24	3.8	10	382	13	0
	NW-20-15-1E	125	7.2	3	8.4	3	859	11.0	411	400	52.6	67.9	33.0	8.3	3.03	463	79.5	13.0	0.28	0.1	12	510	3	0.
		120	7.2	3	8.3	4	708	32.0	385	353	56.9	59.0	5.5	4.9	0.03	430	15.6	11.0	0.26	29.0	10	404	4	0.
	SE-16-16-2E	125	8.3	3	8.5	3	924	109.0	509	400	54.8	90.4	9.3	7.6	0.03	441	43.4	33.0	0.31	52.0	10	541	9	0.
		90	6.1	3	8.4	3	843	120.0	437	317	39.7	82.1	21.0	7.3	0.30	378	149.0	8.4	0.22	6.4	11	516	9	0.
	SE-17-17-1E NE-16-17-2E	110	5.0	3	8.4	3	1,284	221.0	607 342	386	58.1 46.1	112.0	57.0 18.0	9.5	0.76	437	200.0	51.0	0.35	70.0	10	801	17	1.
	SE-21-17-3E			3	8.3	3	758	24.0	320	296	43.5	51.4	46.0	6.6	0.76	361	93.9	13.0	0.42	0.1	9	383	10	0.
	NW-6-16-3E	74	5.0			5	746	5.0	371	366	51.4	59.0	24.0			446		26.0	0.33	0.1	10	456	23	1.
	CSW-1-16-2E	SP	6.1	3	8.2	1	541	2.0	263	261	10.1	57.8	17.0	5.0	2.43	293	35.4	17.0	0.35	0.1	11	426	12	0.
	CNW-8-16-3E	SP	5.0	3	8.7	5	760	2.0	370	368	51.4	58.7	28.0	6.5	0.04	449	42.9	12.0	0.26	1.3	10	312	12	0.
	SE-18-16-3E	53	5.0	3		5	747	3.0	367	354	49.4			6.5		432		18.0	0.33	0.2	11	438	14	0.
35	SE-15-16-3E	58	5.0	3	8.3	3	716	4.0	328	324	39.6	56.8	29.0	6.7	0.15	395	43.6	18.0	0.33	0.1	11	427	15	0.
	SW-13-16-3E	44	6.7	3	8.4	2	688	0.0	272	376	29.2	48.4	36.0	7.0	3.53	327	46.9	21.0	0.32	0.1	11	411	18	0.
	SW-24-15-4E	60	8.9	3		4	1,249	157.0	540	383	47.3	102.0	77.0	7.7	0.99	467	219.0	58.0	0.32	0.1	10	372	22	1.
	SE-23-15-4E	180	12.8	3	8.4	3	1,341	166.0	559	393	52.6	104.0	89.0	8.4	0.86	456	231.2	68.0	0.43	0.1	12	696 803	23	1.

## Table 6—Chemical Analyses of Groundwater in the Selkirk Area, Manitoba (Cont'd) Analyzed by Inland Waters Branch, Water Quality Division,

												CHI	EMICAL	CONST	TITUE	NTS IN	PARTS P	ER MILLI	ON					
		(ft.)	(0,)	Unit)		(CO <sub>2</sub> )	25°C)	HARDN																
Sample No.	Location	Depth of Well	Temperature (	Colour (Hazen	Hď	Carbon Dioxide	10 S	Carbonate		Total Alkalinity as CaCO <sub>3</sub>	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Iron (Fe)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (CI)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Silica (SiO <sub>2</sub> )	Sum of Constituents	% of Sodium	SAR
90 91 92 93	NE-36-15-4E SE-16-16-4E NE-35-16-4E SE-21-18-4E NE-33-17-4E NE-3-17-4E	120 121 70 60 90 57	5.6 10.0 5.6 6.1 5.6 5.0	3 3 3 3 3	8.5 8.6 8.7 8.6 8.5 8.6	2 2 1 2 2 2	742 758 591 794 744 752	25.0 10.0 14.0 11.0 20.0 18.0	361 403 298 382 379 316	336 393 284 371 359 298	19.3 45.7 13.0 41.4 48.5 54.0	76.0 70.2 64.5 67.7 57.3 44.0	29.0 25.0 19.0 36.0 20.0 15.0	5.6 5.5 4.3 5.8 4.3 4.4	0.36 0.20 1.03 0.72 0.13 0.03	388 429 317 424 419 337	70.8 47.5 39.1 73.3 55.2 40.8	16.0 14.0 12.0 13.0 10.0 9.5	0.40 0.41 0.84 0.51 0.68 0.92	0.1 0.1 0.1 0.1 0.6 2.6	12 12 13 13 13 13	431 456 337 474 425 363	15 12 12 17 10 9	0.5 0.5 0.8 0.4 0.4
	Permissible NDARDS Excessive	103	6.4	6 5 50	8.1 6.5 to 9.2		904	81.0	368 * 150	303 125	61.5 75.0 200.0	52.0 50.0	68.2 250.0	5.8	0.80 0.30 1.00	363 180 360	114.1 200.0 400.0	66.0 200.0 600.0	0.52	7.7 10.0 40.0	12	570 500 1,500	20 - 60	2.2
	Excessive -	Good p Beyond water is potable	that ra	water						b) I c) I d) I	dental H Pominio	lospital n Brake Parish S	Shoe St. Peter St. Clemen	nt	1.00	D #	ate of coll 1 to #49 - 50 to #94	ection of s	amples er 10 –	11 -		14 – 1	6, 19	

\* Over 150 ppm is considered hard water.

CANADA

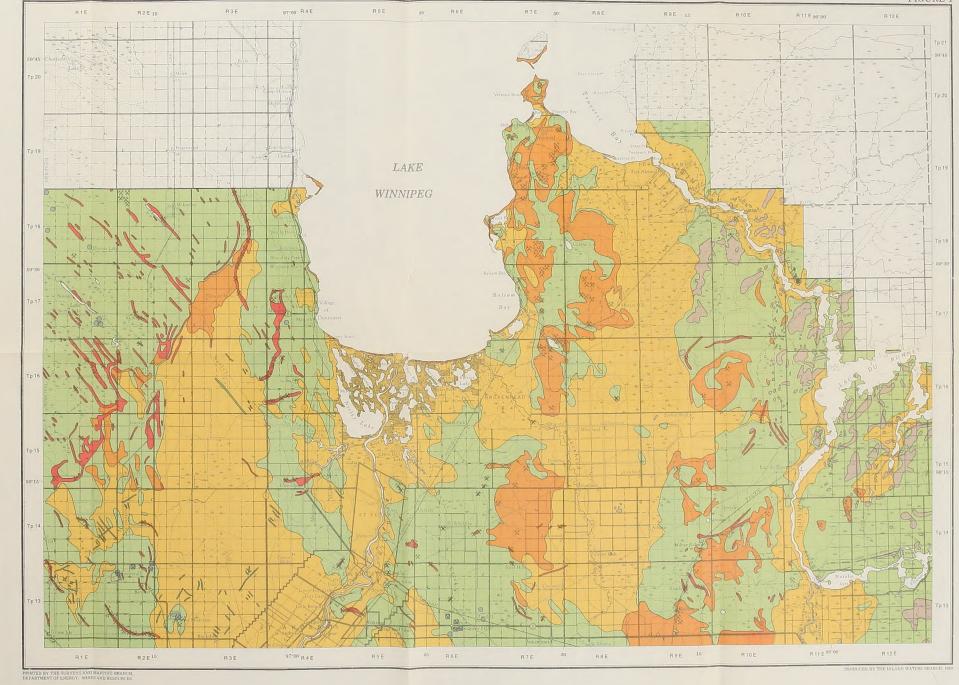
INLAND WATERS BRANCH DEPARTMENT OF ENERGY, MINES AND RESOURCES

FIGURE 1

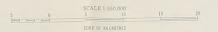
LEGEND DROCK OUTCROP

.. Granite (ஜquarry)

apiled by J.E. Charron pany report by J.E. Charron by the Surveys and Mapping Branch y the Inland Waters Branch, 1969



SELKIRK AREA - MANITOBA INFILTRATION MAP



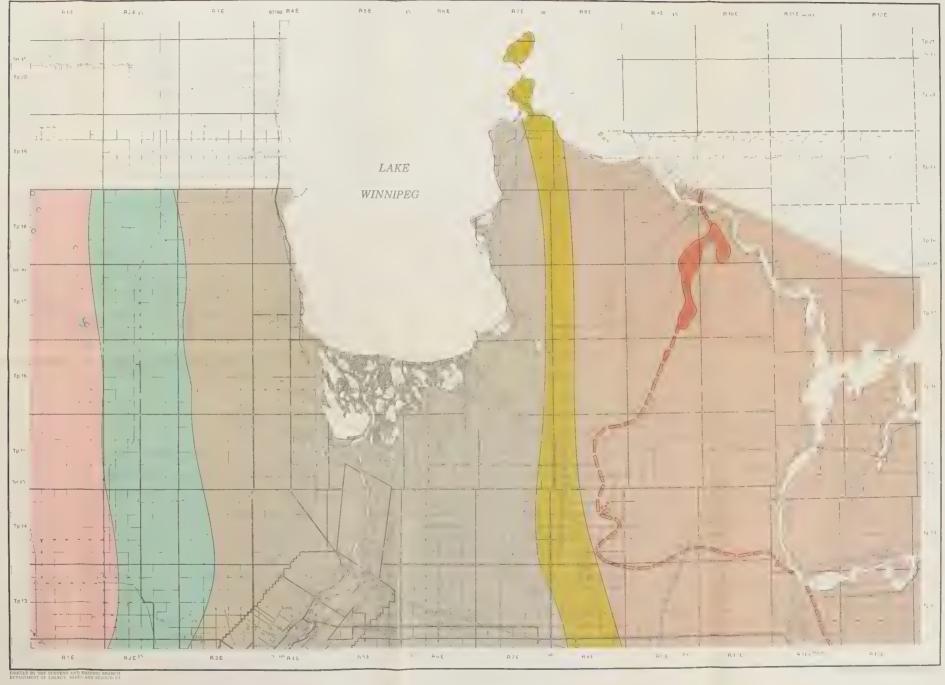
### CANADA INLAND WATERS BRANCH DEPARTMENT OF ENERGY, MINES AND RESOURCES

62-I AND PART OF 52 L



Grid North # Magnetic North True North

Compiled by J. E. Charron to accompany report by J. E. Charron



SELKIRK AREA - MANITOBA BEDROCK GEOLOGY MAP





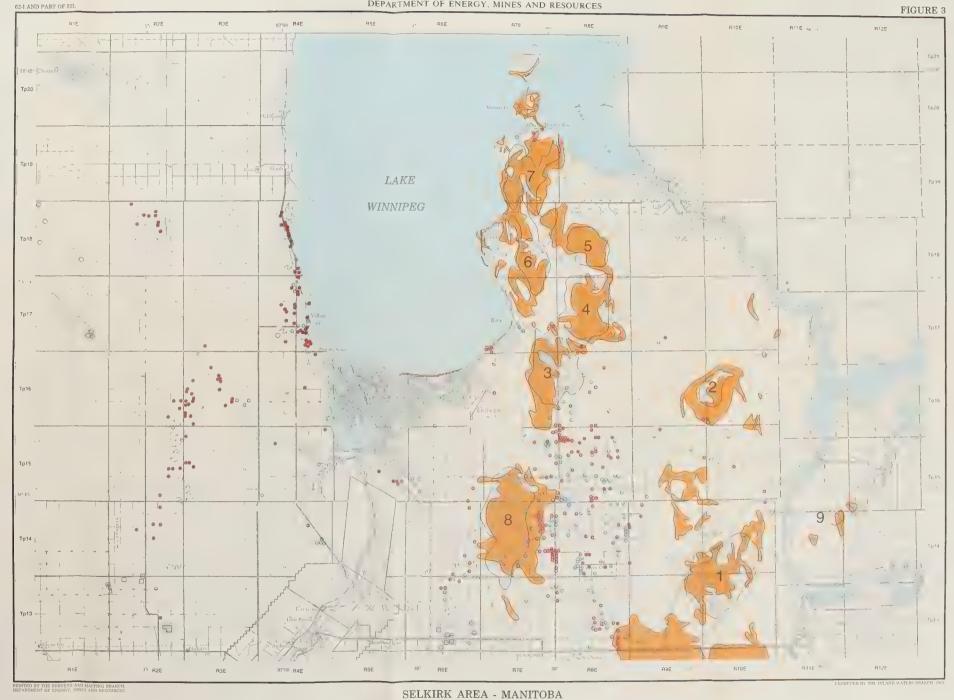




to accompany report by J E Charron

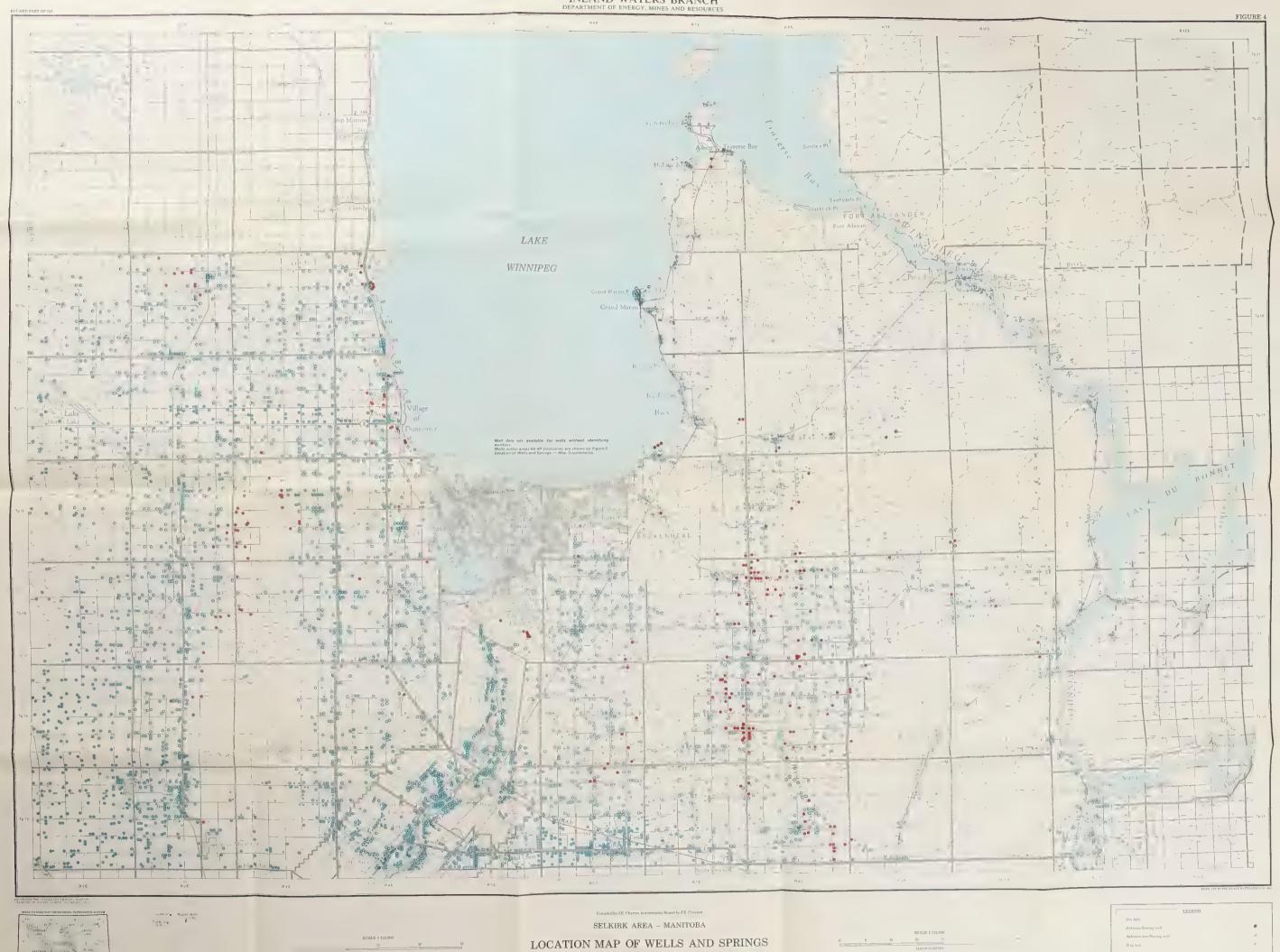
Base map prepared by the Surveys and Mapping Branch Cartography by the Inland Waters Branch, 1969



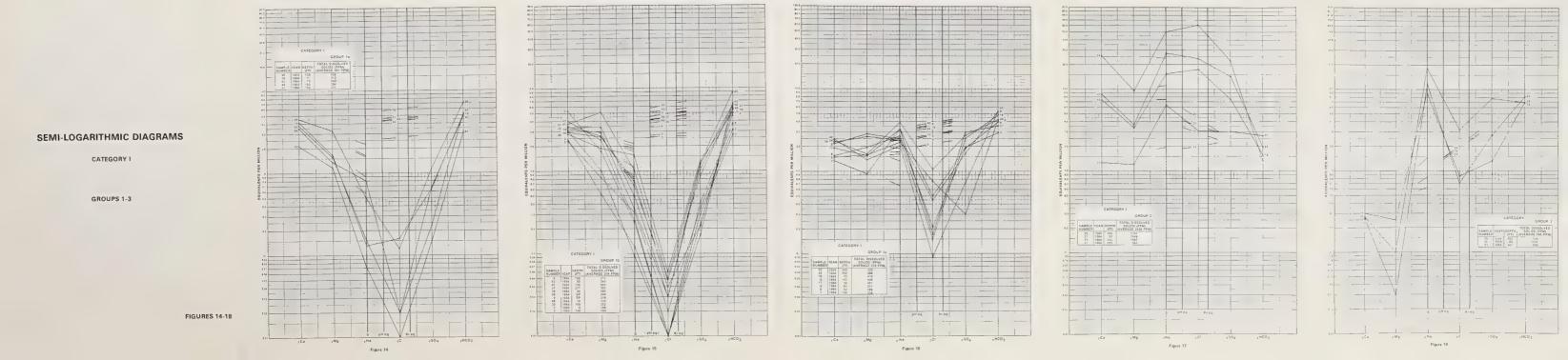


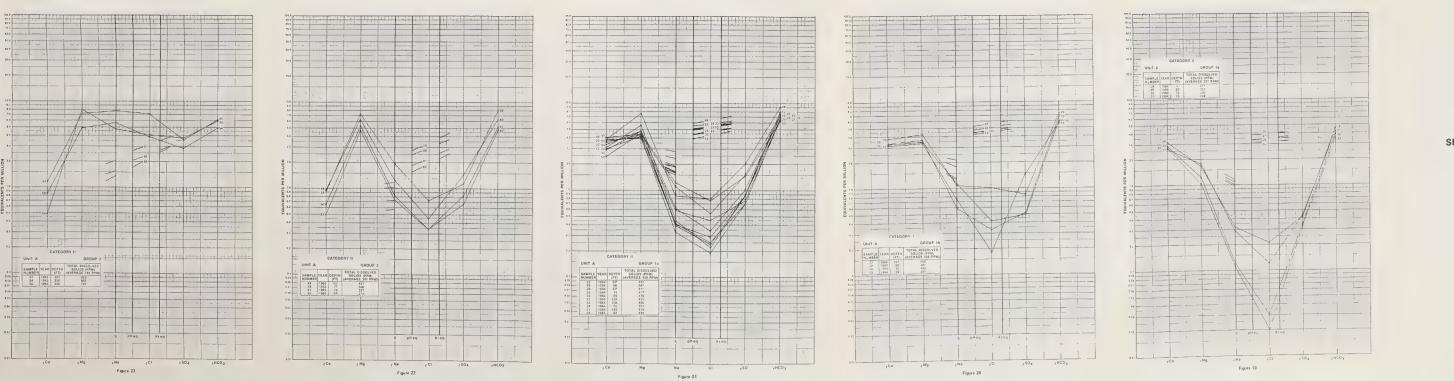
TOPOGRAPHICAL HIGH POINTS, FLOWING WELLS AND SPRINGS









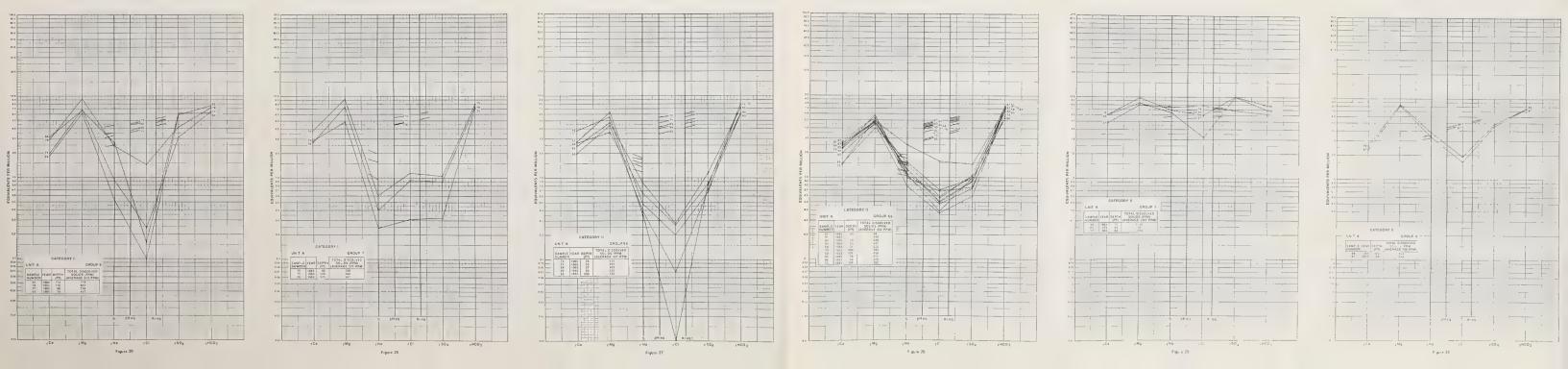


### SEMI-LOGARITHMIC DIAGRAMS

CATEGORY II, UNIT A

GROUPS 1-8

FIGURES 19-29

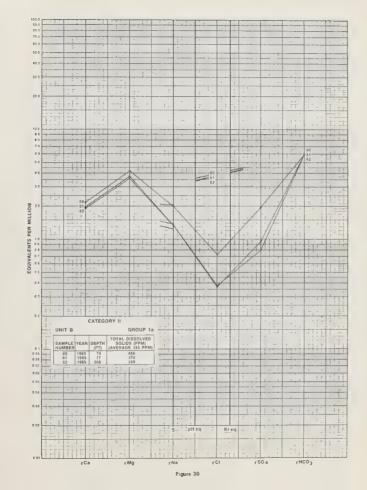


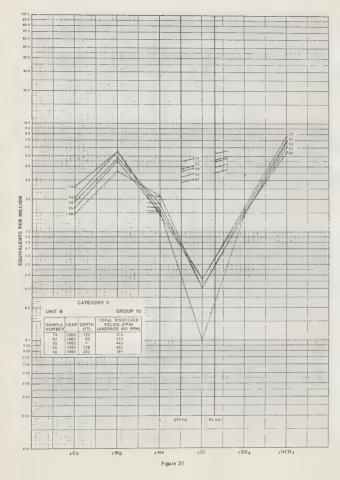
### SEMI-LOGARITHMIC DIAGRAMS

CATEGORY II, UNIT B

GROUP 1







#### SEMI-LOGARITHMIC DIAGRAMS

**CATEGORY III** 

**GROUP 1** 

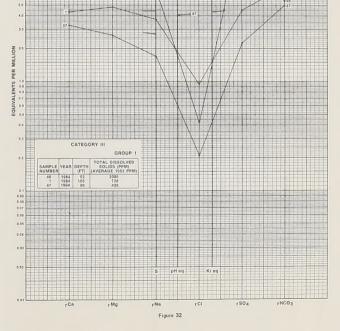
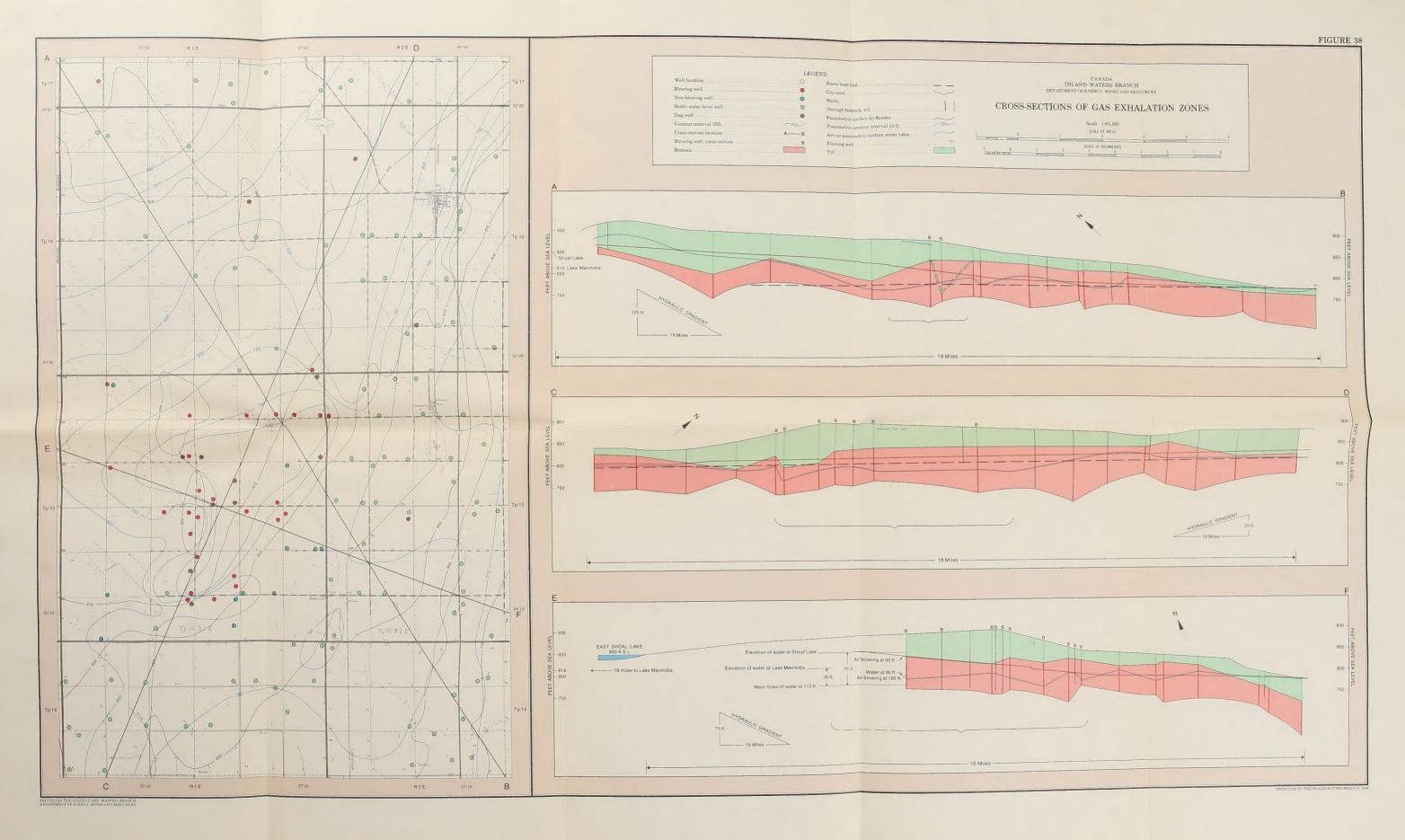


FIGURE 32



CAI MT 56 72508

